

In the Claims:

1. (Currently Amended) A method for selecting a mutant miniature plant having a desired trait, comprising the steps of:

(a) providing a population of miniature plants, wherein said miniature plants have the following characteristics: (i) reduced size in comparison to a commercial plant of the same species; (ii) maturation to produce viable seeds or tubers at a plant density of at least ten-fold higher than standard growth conditions used for a commercial plant of the same species; and (iii) capable of being crossed with a commercial plant of the same species;

(b) generating mutant miniature plants in said miniature plant population by inducing mutagenesis of~~treating~~ said miniature plants via at least one of a T-DNA and a transposon~~with a mobile DNA~~ sequence to produce a mutagenized miniature plant population; and

(c) selecting a mutant miniature plant having said desired trait within said mutagenized miniature plant population.

2. (Canceled)

3. (Previously Presented) The method of claim 1, wherein said mobile DNA sequence in step (b) is a T-DNA.

4-5. (Canceled)

6. (Currently Amended) A mutant miniature plant population wherein a miniature plant of said population has the following characteristics: (i) reduced size in comparison to a commercial plant of the same species; (ii) matures to produce viable seeds or tubers at a density of at least ten-fold higher than standard growth conditions used for a commercial plant of the same species; (iii) capable of being crossed with a commercial plant of the same species; and (iv) carries a mutation induced by inducing mutagenesis via~~at least one of a T-DNA and a transposon sequence~~ mobile DNA sequence.

7. (Original) The mutant miniature plant population of claim 6, wherein said commercial plant of the same species is used to produce food, fiber or flowers.

8. (Original) The mutant miniature plant population of claim 15, wherein said commercial plant of the same species is a plant which produces a berry-type fruit or a plant of the Solanaceae family.

9. (Original) The mutant miniature plant population of claim 8, wherein said commercial plant produces a berry-type fruit selected from tomato, grape, prune, eggplant citrus fruits, apple.

10. (Currently Amended) A method for producing a mutant population of a miniature plant comprising the steps of:

(a) providing a population of miniature plants, wherein said miniature plants have the following characteristics: (i) reduced size in comparison to a commercial plant of the same species; (ii) maturation to produce viable seeds or tubers at a plant density of at least ten-fold higher than standard growth conditions used for a commercial plant of the same species; and (iii) capable of being crossed with a commercial plant of the same species; and

(b) generating mutant plants in said miniature plant population by inducing mutagenesis of said miniature plants via at least one of a T-DNA and a transposon~~treating said plants with a mobile DNA~~ sequence to produce said mutant population of said miniature crop plant cultivar.

11. (Canceled)

12. (Previously Presented) The method of claim 10, wherein said mobile DNA sequence in step (b) is a T-DNA.

13. (Previously Presented) The method of claim 12, wherein said miniature plants are infected with *Agrobacterium*, thus producing multiple transformants wherein each transformant contains a T-DNA insertion in a different genomic position.

14-17. Canceled